

AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows:

Please amend paragraph [0044] to read as follows:

In the embodiment of laser module 100 shown in **Figure 2**, the temperature is measured with a thermistor 215. The signals from thermistor 215 are input to temp sensor 514 in optical transmission controller 110. In general, temperatures can be measured with any appropriate temperature sensor, including thermocouples or other devices. Temperature sensor 514 receives a signal indicative of the temperature of laser module 100 and outputs a voltage signal to ADC related to the temperature. The digital signal from ADC is compared with the signal from temperature setting 520 in adder 518. The error signal from adder 518 is input to PID 512, which determined a new voltage setting for thermoelectric cooler (TEC) 216. The digital output signal from PID 512 is converted into an analog signal by DAC 510 before being output to TEC driver 470, which may amplify the voltage by a predetermined amount. The output signal from TEC driver 470, TEC, is then input to thermoelectric cooler 216. The temperature of the laser module, which also may control the wavelength of the light output by laser diode 210, can thereby be controlled through direct bi-lateral communication between laser module 100 and temperature control 332 without substantially impacting the power output of laser diode 210.